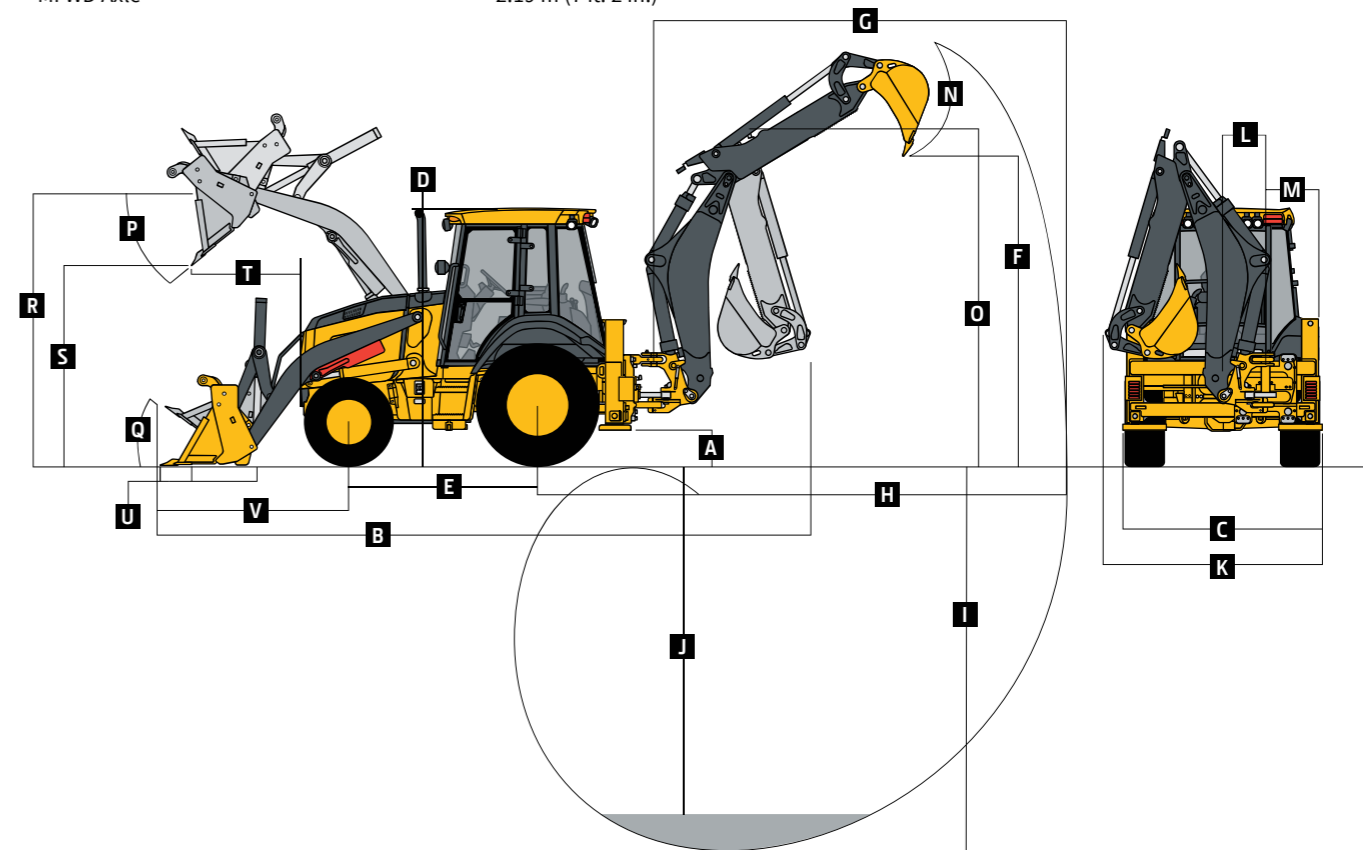




# 315SL SPECIFICATIONS

<b>Engine</b>	<b>315SL</b>			
Manufacturer and Model	John Deere PowerTech™ 4045TT096 turbocharged		John Deere PowerTech™ E 4045HT086 turbocharged	
Non-Road Emission Standard	EPA Tier 2/EU Stage II		EPA Tier 3/EU Stage IIIA	
Displacement	4.5 L (276 cu. in.)		4.5 L (276 cu. in.)	
Net Peak Power (ISO 9249)	70 kW (94 hp) at 2,000 rpm		71 kW (96 hp) at 1,900 rpm	
<b>Powertrain</b>				
Transmission	5-speed, helical-cut gears, full PowerShift™ transmission with hydraulic reverser standard; electric clutch cutoff on loader lever; AutoShift transmission optional			
Torque Converter	Single stage, dual phase with 2.63:1 stall ratio, 280 mm (11 in.)			
Maximum Travel Speeds with Standard Engine, Measured with 16.9-28 Rear Tires	Forward	Reverse	Forward	Reverse
Gear 1	5.8 km/h (3.6 mph)	7.3 km/h (4.5 mph)	5.8 km/h (3.6 mph)	7.3 km/h (4.5 mph)
Gear 2	10.6 km/h (6.6 mph)	13.3 km/h (8.3 mph)	10.6 km/h (6.6 mph)	13.4 km/h (8.3 mph)
Gear 3	21.4 km/h (13.3 mph)	21.2 km/h (13.2 mph)	21.7 km/h (13.5 mph)	21.4 km/h (13.3 mph)
Gear 4	35.2 km/h (21.9 mph)	—	35.1 km/h (21.8 mph)	—
Gear 5	40.0 km/h (24.9 mph)	—	40.0 km/h (24.9 mph)	—
<b>Axles</b>				
Axle Oscillation, Stop to Stop, Front Axle	22 deg.		22 deg.	
Axle Ratings	Non-Powered Front		Mechanical-Front-Wheel Drive (MFWD)	
SAE J43	5500 kg (12,125 lb.)	5500 kg (12,125 lb.)	Rear	
Dynamic	8500 kg (18,739 lb.)	8500 kg (18,739 lb.)	10 500 kg (23,149 lb.)	
Static	22 500 kg (49,604 lb.)	23 500 kg (51,809 lb.)	26 000 kg (57,320 lb.)	
Ultimate	35 000 kg (77,162 lb.)	37 000 kg (81,571 lb.)	39 500 kg (87,083 lb.)	
<b>Differentials</b>				
MFWD Axle	Automatic, limited-slip traction control			
Rear Axle	Foot actuated, hydraulically engaged 100% mechanical lock			
<b>Steering (ISO 5010)</b>	Hydrostatic power steering and emergency steering			
Axle	Non-Powered Front		MFWD	
Curb-Turning Radius				
With Brakes	3.53 m (11 ft. 7 in.)	3.67 m (12 ft. 0 in.)		
Without Brakes	4.13 m (13 ft. 7 in.)	4.35 m (14 ft. 3 in.)		
<b>Bucket-Clearance Circle</b>				
With Brakes	10.36 m (34 ft. 0 in.)	10.48 m (34 ft. 5 in.)		
Without Brakes	11.23 m (36 ft. 10 in.)	11.47 m (37 ft. 8 in.)		
Steering Wheel Turns (lock to lock)	3.2	2.7		
<b>MFWD Axle</b>	Heavy duty, outboard planetary final drives distribute shock loads over 3 gears			
<b>Rear Axle</b>	Heavy duty, outboard planetary final drives distribute shock loads over 4 gears			
<b>Brakes (ISO 3450)</b>				
Service	Power assisted, hydraulic wet disc, mounted inboard, self-adjusting and self-equalizing			
Parking	Spring applied, hydraulically released, wet, multi-disc, independent of service brakes with electric switch control			
<b>Hydraulics</b>				
Main Pump	Open center, gear type, tandem with unloader			
Pump Flow at 2,200 rpm				
Backhoe	136 L/m (36 gpm)			
Loader	106 L/m (28 gpm)			
System Relief Pressure, Backhoe and Loader	24 993 kPa (3,625 psi)		24 993 kPa (3,625 psi)	
<b>Controls</b>				
Backhoe	2-lever mechanical standard, pilot controls with pattern select and manual and/or electric auxiliary functions optional		2-lever manual standard, manual and/or electric auxiliary functions optional	
Loader	Single-lever control with electric clutch cutoff switch standard; manual auxiliary function (2nd lever), single-lever control with electric clutch cutoff switch, electrohydraulic (EH) proportional auxiliary roller, MWFD (momentary), and transmission quick-shift optional			
<b>Tires/Wheels</b>				
	Front	Rear	Front	Rear
Non-Powered Front Axle	12.5/80-18 F3 (12)	19.5L-24 R4 (12)	12.5/80-18 F3 (12)	19.5L-24 R4 (12)
	12.5/80-18 F3 (12)	16.9L-28 R4 (12)	12.5/80-18 F3 (12)	16.9L-28 R4 (12)
With MFWD	12.5/80-18 I3 (12)	19.5L-24 R4 (10)	12.5/80-18 I3 (12)	19.5L-24 R4 (10)
	12.5/80-18 R4 (10)	19.5L-24 R4 (12)	12.5/80-18 R4 (10)	19.5L-24 R4 (12)
<b>Operating Weights</b>				
With Full Fuel Tank, 79-kg (175 lb.) Operator, Standard Equipment, and Bumper	7962 kg (17,554 lb.)		—	
With Full Fuel Tank, 79-kg (175 lb.) Operator, and Standard Equipment	—		7849 kg (17,305 lb.)	
Typical with Extendable Dipperstick and 204-kg (450 lb.) Counterweight	8280 kg (18,255 lb.)		8280 kg (18,255 lb.)	
<b>Optional Components (weight difference between base equipment and option)</b>				
MFWD with Tires	220 kg (485 lb.)		220 kg (485 lb.)	
Extendable Dipperstick	222 kg (490 lb.)		222 kg (490 lb.)	

<b>Overall Dimensions</b>	<b>315SL</b>
<b>A</b> Ground Clearance, Minimum	351 mm (14 in.)
<b>B</b> Overall Length, Transport	5.96 m (19 ft. 7 in.)
<b>C</b> Stabilizer Spread	2.26 m (7 ft. 5 in.)
<b>D</b> Height to Top of ROPS/Cab	2.84 m (9 ft. 4 in.)
<b>E</b> Length from Axle to Axle	
Non-Powered Front Axle	2.16 m (7 ft. 1 in.)
MFWD Axle	2.19 m (7 ft. 2 in.)



<b>Backhoe Dimensions and Performance</b>				
Backhoe specifications are with 610-mm x 0.21-m <sup>3</sup> (24 in. x 7.5 cu. ft.) bucket; dipper lift specs are with a boom angle of 65 deg.				
Bucket Range	305–762 mm (12–30 in.)			
Digging Force	Bucket Cylinder	55.0 kN (12,356 lb.)	(With Heavy-Duty Cylinder Option	67.8 kN (15,254 lb.)
		<i>With Standard Backhoe</i>	<i>Retracted</i>	<i>Extended</i>
<b>F</b> Loading Height, Truck Loading Position		3.57 m (11 ft. 8 in.)	3.69 m (12 ft. 1 in.)	4.31 m (14 ft. 2 in.)
<b>G</b> Reach from Center of Swing Pivot		5.44 m (17 ft. 10 in.)	5.61 m (18 ft. 5 in.)	6.62 m (21 ft. 9 in.)
<b>H</b> Reach from Center of Rear Axle		6.80 m (22 ft. 4 in.)	6.98 m (22 ft. 11 in.)	7.98 m (26 ft. 2 in.)
<b>I</b> Digging Depth (SAE maximum)		4.17 m (13 ft. 8 in.)	4.34 m (14 ft. 3 in.)	5.39 m (17 ft. 8 in.)
<b>J</b> Digging Depth (SAE)				
610-mm (2 ft.) Flat Bottom		4.13 m (13 ft. 6 in.)	4.30 m (14 ft. 1 in.)	5.35 m (17 ft. 7 in.)
2440-mm (8 ft.) Flat Bottom		3.77 m (12 ft. 5 in.)	3.96 m (13 ft. 0 in.)	5.09 m (16 ft. 9 in.)
<b>K</b> Overall Width (less loader bucket)		2.43 m (8 ft. 0 in.)	2.41 m (7 ft. 11 in.)	—
<b>L</b> Side-Shift from Tractor Centerline		537 mm (21 in.)	537 mm (21 in.)	537 mm (21 in.)
<b>M</b> Wall to Swing Centerline		604 mm (24 in.)	604 mm (24 in.)	604 mm (24 in.)
<b>N</b> Bucket Rotation		190 deg.	190 deg.	190 deg.
<b>O</b> Transport Height		3.63 m (11 ft. 11 in.)	3.63 m (11 ft. 11 in.)	3.63 m (11 ft. 11 in.)
<b>P</b> Bucket Dump Angle, Maximum		45 deg.		
<b>Q</b> Rollback Angle at Ground Level		40 deg.		
		<i>Heavy-duty</i>	<i>Heavy-duty</i>	<i>Multipurpose</i>
Bucket Capacity		0.77 m <sup>3</sup> (1.00 cu. yd.)	1.00 m <sup>3</sup> (1.31 cu. yd.)	0.96 m <sup>3</sup> (1.25 cu. yd.)
Width		2184 mm (86 in.)	2337 mm (92 in.)	2184 mm (86 in.)
Weight		363 kg (800 lb.)	521 kg (1,148 lb.)	794 kg (1,750 lb.)
Breakout Force		48.3 kN (10,866 lb.)	46.8 kN (10,532 lb.)	43.5 kN (9,789 lb.)
Lift Capacity, Full Height		3375 kg (7,440 lb.)	3322 kg (7,324 lb.)	2875 kg (6,338 lb.)
<b>R</b> Height to Bucket Hinge Pin, Maximum		3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)
<b>S</b> Dump Clearance, Bucket at 45 deg.		2.71 m (8 ft. 11 in.)	2.68 m (8 ft. 10 in.)	2.65 m (8 ft. 8 in.)
<b>T</b> Reach at Full Height, Bucket at 45 deg.		734 mm (28.9 in.)	695 mm (27.4 in.)	737 mm (29.0 in.)
<b>U</b> Digging Depth Below Ground, Bucket Level		106 mm (4.2 in.)	151 mm (5.9 in.)	147 mm (5.8 in.)
<b>V</b> Length from Front Axle Centerline to Bucket Cutting Edge		2.02 m (6 ft. 8 in.)	2.04 m (6 ft. 8 in.)	2.09 m (6 ft. 10 in.)